CLAIMS

1	1. A bumper bar forming a part of a bumper assembly attached to a
2	vehicle, said bumper bar comprising:
3	a roll-formed, tubular beam which is formed along a sweep axis,
4	wherein said sweep axis has reverse curvatures creating at least two
5	symmetrical inflection points.
1	2. The bumper bar of claim 1 wherein the reverse curvature at said
2	inflection points creates a center section of the beam which extends beyond the
3	outline of a beam having a constant sweep.
1	3. The bumper bar of claim 1, wherein said beam is comprised of a
2	high-strength steel.
1	4. A method for fabricating a bumper bar for a bumper assembly,
2	said method comprising the steps of:
3	providing a sheet of steel;
4	roll-forming said sheet to produce a beam which is formed along an
5	straight central axis; and
6	reforming said tubular/non-tubular beam by sweeping said tubular/non-
7	tubular beam along said axis, so as to define a sweep axis, said sweep axis
8	having reverse curvatures creating at least two inflection points, so that said
9	sweep axis is a complex sweep axis.

1 5. The method of claim 4, including the further step of heat treating includes a further step of heat treating said tubular/non-tubular beam so 2 3 as to increase the hardness thereof. The method of claim 5, wherein said step of heat treating 1 6. includes a further step of quenching, and wherein said step of quenching is 2 3 implemented after said step of reforming tubular/non-tubular beam. 1 7. The method of claim 4, wherein roll-forming said sheet of steel 2 to produce a beam comprises roll-forming said sheet of steel to produce a beam 3 having an open seam. 1 8. The method of claim 7, including the further step of closing said 2 seam. 1 9. The method of claim 8, wherein said step of closing said seam 2 comprises welding said seam.